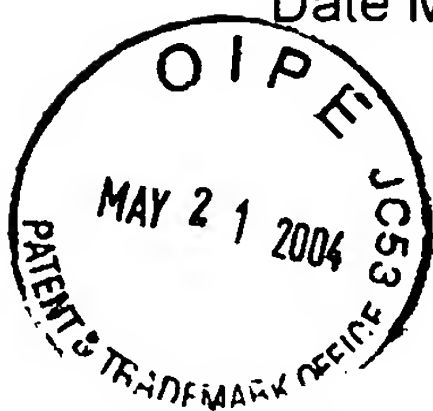


IPW 1632  
18810-81606

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Date Mailed: May 18, 2004



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Readhead et al.  
Serial No. 10/054,365  
Filed: November 12, 2001  
For: TRANSFECTION, STORAGE AND TRANSFER OF  
MALE GERM CELLS FOR GENERATION OF  
TRANSGENIC SPECIES  
  
Examiner: Voitach, Joseph T.  
Confirmation No.: 9234  
  
Unit: 1632

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir or Madam:

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO THE COMMISSIONER FOR PATENTS	
Alexandria, Virginia 22313-11450, ON	May 18, 2004
	DATE
BY	CHRISTINA TONG
	May 18, 2004
	(DATE OF SIGNATURE)

Applicants' attorney submits herewith the full text of references (see, PTO Form 1449 attached) of which he is aware, that he believes may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56. The filing of this Information Disclosure Statement is after a first Office Action on the merits.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists (37 CFR 1.97(h)).

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Further, the filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

It is believed that this information disclosure statement is being filed after the mailing of a first office action on the merits. The Commissioner is hereby authorized to charge \$180.00 or any fee required or credit overpayments under 37 C.F.R. 1.16 or C.F.R. 1.17 to Deposit Account No. 50-1597.

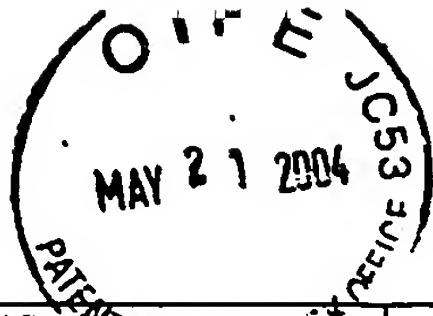
Respectfully submitted,

By:

A handwritten signature in black ink, appearing to read 'Nisan A. Steinberg', is written over a horizontal line.

Nisan A. Steinberg, Ph.D.  
Registration No. 40,345

SIDLEY AUSTIN BROWN & WOOD LLP  
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Fax: 213/896-6600



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	APPLICANT: Readhead et al.	
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	4 6 6 3 2 8 1	05/05/87	Gillies et al.			
	4 7 6 2 7 0 1	08/09/88	Horan et al.			
	4 8 7 0 0 0 9	09/26/89	Evans et al.			
	4 9 5 9 3 1 3	09/25/90	Taketo			
	4 9 7 8 3 3 2	12/18/90	Luck et al.			
	5 1 7 5 3 8 4	12/29/92	Krimpenfort et al.			
	5 2 0 6 1 4 3	04/27/93	Horan et al.			
	5 3 5 8 7 1 1	10/25/94	May et al.			
	5 3 7 5 6 0 6	12/27/94	Slezak et al.			
	5 4 2 2 2 6 6	06/06/95	Cormier et al.			
	5 4 3 0 0 5 7	07/04/95	Anderson et al.			
	5 4 3 4 3 4 0	07/18/95	Krimpenfort et al.			
	5 4 9 1 0 8 4	02/13/96	Chalfie et al.			
	5 5 2 1 2 9 1	05/28/96	Curiel et al.			

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation	
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WO 90/08192	07/26/90	EPO				
WO 92/03459	03/05/92	PCT				
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WO 95/02041	01/19/95	PCT				
EP 0 867 114 A1	09/30/98	EPO				

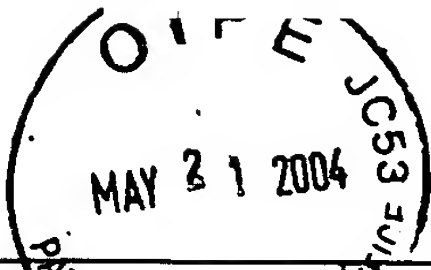
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1.	Avarbock, Mary R., et al., Reconstitution of spermatogenesis from frozen spermatogonial stem cells, <u>Nature Medicine</u> , Vol. 2, No. 6, pp. 693-696, (June, 1996).
2.	Baranov, V. S., et al., <i>The possibility of the incorporation of macromolecules, including exogenous DNA, into the germ cells of male mice. The liposome method and Ca-P coprecipitation method</i> , <u>Tsitol Genet</u> , Vol.24, No.2, pp. 52-55 (Mar. 1990). ABSTRACT ONLY

EXAMINER

DATE CONSIDERED

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		5	5	3	2	1	4	3	07/02/96	Grosveld et al.			
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		5	5	4	3	2	9	1	08/06/96	Keyomarsi et al.			
		5	5	5	6	9	5	4	09/17/96	Burn et al.			
		5	5	5	9	1	4	8	09/24/96	Anderson et al.			
		5	5	9	1	6	2	5	01/07/97	Gerson et al.			
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		5	6	2	5	0	4	8	04/29/97	Tsien et al.			
		5	6	3	9	6	1	8	06/17/97	Gay			
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		5	6	5	0	1	3	5	07/22/97	Contag et al.			
		5	6	6	5	5	5	7	09/09/97	Murray et al.			
		5	6	7	0	3	7	2	09/23/97	Hogan			
		5	7	5	0	3	7	6	05/12/98	Weiss et al.			
		5	7	6	7	2	5	8	06/16/98	Sidransky			
		5	7	7	7	0	7	9	07/07/98	Tsien et al.			
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## FOREIGN PATENT DOCUMENTS

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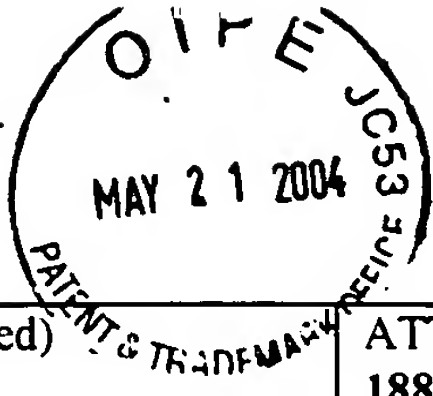
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

3.		Birnstiel, Max L. et al., <i>Dangerous Liaisons: Spermatozoa as Natural Vectors for Foreign DNA?</i> , Cell, Vol. 57, pp. 701-702, (1989).
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EXAMINER

DATE CONSIDERED

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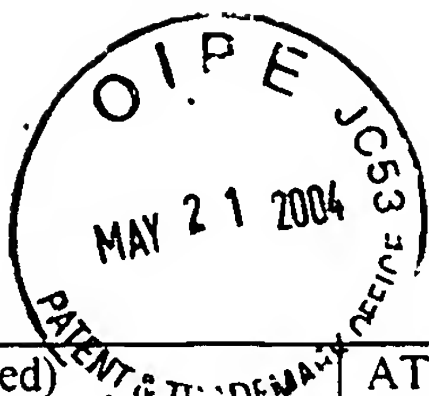
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	4.	Blanchard, K., T. et al., <i>Adenovirus-mediated gene transfer to rat testis in vivo</i> , Biol Reprod (1997 Feb); 56(2):495-500
	5.	Brinster, Ralph L., et al., <i>No Simple Solution for Making Transgenic Mice</i> , Cell, Vol. 59, pp. 239-241, Oct 20, 1989
	6.	Brinster, Ralph L. et al., Avarbock, <i>Germline transmission of donor haplotype following spermatogonial transplantation</i> , Proc. Natl. Acad. Sci. USA, Vol. 91 pp. 22303-22307, (Nov. 1994) Developmental Biology.
	7.	Brinster, Ralph L. et al., <i>Spermatogenesis following male germ-cell transplantation</i> , Proc. Natl. Acad. Sci USA, Vol. 91, pp. 11298-11302, (Nov. 1994), Developmental Biology.
	8.	Chen, Shu-Hsia et al., <i>Gene therapy for brain tumors: Regression of experimental gliomas by adenovirus-mediated gene transfer in vivo</i> , Proc. Natl. Acad. Sci, USA, Vol. 91, pp. 3054-3057, April 1994
	9.	Chung, J. H. et al., <i>A 5' element of the chicken beta-globin domain serves as an insulator in human erythroid cells and protects against position effect in Drosophila</i> , Cell, 74(3):505-14, Aug 13, 1993, ABSTRACT ONLY
	10.	Chung, J. H. et al., <i>Characterization of the chicken beta-globin insulator</i> , Proc. Natl. Acad. Sci. USA, 94(2):575-80, January 21, 1997, ABSTRACT ONLY
	11.	Clouthier, D. E. et al., <i>Rat spermatogenesis in mouse testis</i> , Nature, 381 (6581): 418-421 (May 30, 1996).
	12.	Curiel D. T., et al. <i>Adenovirus enhancement of transferrin-polylysine-mediated gene delivery</i> , Proc. Natl. Acad. Sci-USA, 88:8850-54(Oct. 1991).

EXAMINER

DATE CONSIDERED

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

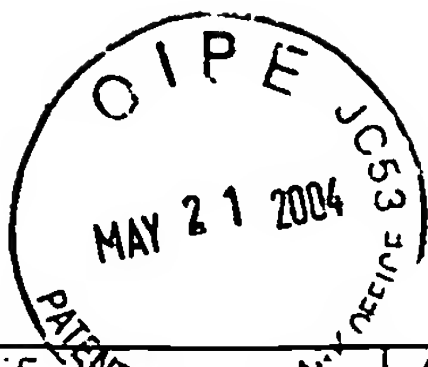
	13.		Desdouets, C. et al, <i>Cyclin A: function and expression during cell proliferation</i> , <i>Proc Cell Cycle Res</i> , 1:115-23, 1995, ABSTRACT ONLY
	14.		Graberek & Gergely, <i>Zero-length cross-linking procedure with the use of</i> <i>active esters</i> , <i>Analyt. Biochem</i> 185: 131-135 (1990).
	15.		Hagstrom, K., et al., <i>Fab-7 functions as a chromatin domain boundary to ensure</i> <i>proper segment specification by the Drosophila bithorax complex</i> , <i>Genes Dev</i> , 10(24):3202-15, Dec 15, 1996, ABSTRACT ONLY
	16.		Horiguchi-Yamada, J., et al., <i>Changes of G1 cyclins, edk2, and cyclin A during</i> <i>the differentiation of HL60 cells induced by TPA</i> , <i>Mol Cell Biochem</i> , 132(1):31-7, Mar 16, 1994, ABSTRACT ONLY
	17.		Hovatta, Outi, et al., <i>Cryopreservation of human ovarian tissue using</i> <i>dimethylsulphoxide and propanediol-sucrose as cryoprotectants</i> , <i>Human Reproduction</i> , Vol. 11, No. 6, pp. 1268-1272, (1996).
	18.		Hovatta, Outi, et al., <i>Pregnancy resulting from intracytoplasmic injection of</i> <i>spermatozoa from a frozen-thawed testicular biopsy specimen</i> , <i>Human Reproduction</i> , Vol. 11, No. 11, pp. 2472-2473, (1996).
	19.		Jiang, F-X et al., <i>Male germ cell transplantation in rats: apparent</i> <i>syngchronization of spermatogenesis between host and donor seminiferous</i> , <i>epithelia</i> , <i>International Journal of Andrology</i> , vol. 18, pp. 326-330 (1995)

EXAMINER

DATE CONSIDERED

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						YES	N

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

20.	Jiang, Fang-Xu et al., <i>Different fate of primordial germ cells and gonocytes following transplantation</i> , <i>APMIS</i> , Vol. 106, p. 58-63, (1998).
21.	Johnson L. et al., <i>Heterotoic transplantation as a model to study the regulation of spermatogenesis: some histomorphological considerations about sperm decline in man</i> ; <i>Contracept Fertil Sex</i> 1997 Vol. 25(7-8), pp. 549-555, (1997)
22.	Jones and Shenk , <i>An adenovirus type 5 early gene function regulates expression of other early viral genes</i> , <i>Proc. Natl. Acad. Sci. USA</i> , 76:(8)3665-3669 (1979)
23.	Kang, M. J. et al., <i>Cyclins and cyclin dependent kinases during cardiac development</i> , <i>Mol Cells</i> , 7(3):360-6, (June 30, 1997) ABSTRACT ONLY
24.	Kim, Jin-Hoi et al., <i>Development of a Positive method for Male stem Cell-Mediated Gene Transfer in Mouse and Pig</i> , <i>Molecular Reproduction and Development</i> , Vol. 46, No. 4, pp. 515-526, (1997)
25.	Kim, V. Narry et al., <i>Minimal requirement for a Lentivirus Vector Based on Human Immunodeficiency Virus Type 1</i> , <i>Journal of Virology</i> , pp. 811-816, (Jan. 1998)
26.	Langer, Robert S. et al., <i>Tissue Engineering: The obstacles to building new organs from cells and synthetic polymers are daunting but surmountable</i> <i>The Challenges Ahead</i> , <i>Scientific American</i> , pp. 86-89, April 1999

EXAMINER

DATE CONSIDERED

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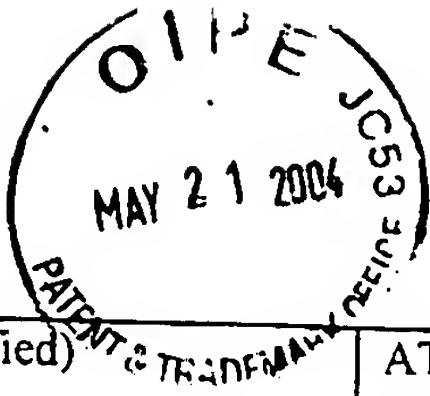
27.	Lavitrano, Mariauisa et al., <i>Sperm Cells as Vectors for Introducing foreign DNA</i>	
	<i>Into Eggs: Genetic Transformation of Mice</i> , Cell, Vol. 57, pp. 717-723, (6/2/89)	
28.	Mittereder et al., <i>Evaluation of the concentration and bioactivity of adenovirus</i>	
	<i>vectors for gene therapy</i> , J. Virology, 70: 7498-7509 (1996)	
29.	Müller, C. et al., <i>Cell cycle regulated transcription of the promoter of the human cyclin A1 gene</i> , Blood, Journal of the American Society of Hematology,	
	Vol. 90, No. 10, Suppl 1 (Part 1 of 2) Nov 15, 1997 ABSTRACT 1404	
30.	Müller, C. et al., <i>Cyclin A1 promoter is trans-activated by the c-myc proto-onco</i>	
	<i>gene</i> , Proc. of the Amer. Assoc. for Cancer Res, Vol. 39, Mar/Apr 1998 ABSTRACT 1742	
31.	Müller, C. et al., <i>SP1 Family Members Regulate Expression of the Tissue Specific Human Cyclin A1 Gene</i> , Blood Journal of the American society of Hematology,	
	Americ. Soc. Of Hemat. 40th Annual Meeting, Dec 4-8, 1998 ABSTRACT 1534	
32.	Müller, Carsten et al., <i>Cloning of the cyclin A1 Genomic Structure and Characterization of the Promoter Region</i> , The Journal of Biological Chemistry	
	Vol. 276, No. 16, pp. 11220-11228, Apr 16, 1998	
33.	Muramatsu T. et al., <i>Foreign gene expression in the mouse testis by localized</i>	
	<i>in vivo gene transfer</i> , Biochem Biophys Res commun, 7:233(1):45-49 (Apr 1997)	
34.	Nagano, M, et al., <i>Spermatogonial transplantation and reconstitution of donor</i>	
	<i>cell spermatogenesis in recipient mice</i> , APMIS, 106, PP. 47-55, (1998)	

EXAMINER

DATE CONSIDERED

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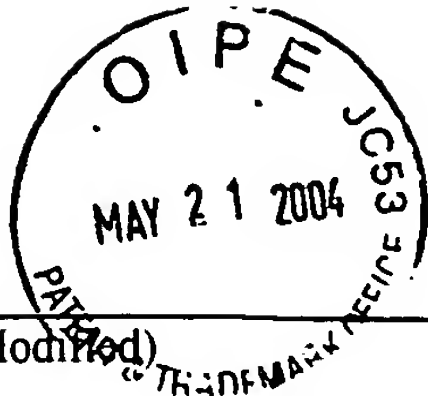
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	35.		Naito M, et al., <i>Production of germline chimeric chickens, with high transmission rate of donor-derived gametes, produced by transfer of primordial germ cells</i> , <u>Molecular Reprod Dev.</u> 39(2):153-161 (Oct. 1994).
	36.		Naito M, et al., <i>Donor primordial germ cell-derived offspring from recipient germline chimeric chickens: absence of long-term immune rejection and effects on sex ratios</i> , <u>Br Poult Sci</u> , 39(1):20-23 (Mar. 1998).
	37.		Naldini, Luigi et al., <i>In Vivo Gene Delivery and Stable Transduction of Nondividing Cells by a Lentiviral Vector</i> , <u>Science</u> , Vol. 272, pp. 263-69 April 12, 1996
	38.		Ogawa, Takehiko et al., <i>Transplantation of testis germinal cells into mouse seminiferous tubules</i> , <u>Int. J. Dev. Biol.</u> , 41:222-122 (1997).
	39.		Ono T. et al., <i>Transfer of male or female primordial germ cells of quail into chick embryonic gonads</i> , <u>Exp Anim</u> , 45(4):347-352 ( Oct. 1996).
	40.		Paterlini, P. et al., <i>Cylin A expression in human hematological malignancies: a new marker of cell proliferation</i> , <u>Cancer Res</u> , 53(2):235-8, (Jan 15, 1993) ABSTRACT ONLY
	41.		Pedersen, Roger A., <i>Cells for Medicine</i> , Embryonic Stem Cells for Medicine, Scientific American, pp. 68-73 (April 1999).
	42.		Perez-Cruet, M. J.; et al., <i>Adenovirus-Mediated Gene Therapy of Experimental gliomas</i> , <u>Journal of Neuroscience Research</u> , Vol. 39, pp 506-511(1994).
			<i>meiotic cell cycles</i> , <u>Dev. Biol.</u> , 10:173(1):69-78, (Jan 10, 1996).

EXAMINER

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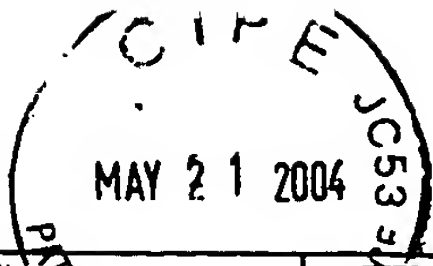
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

43.	Pikaart, Michael J., <i>Loss of transcriptional activity of a transgene is accompanied by DNA methylation and histone deacetylation and is prevented by insulators</i> , Genes & Development, 12:2852-2862. (1998).
44.	Ravnik, S. E. et al., <i>The developmentally restricted pattern of expression in the male germ line of a murine cyclin A, cyclin A2, suggests roles in both mitotic and meiotic cell cycles</i> , Dev. Biol., 10:173(1):69-78, (Jan 10, 1996). ABSTRACT ONLY
45.	Ravnik, S. E. et al., <i>Regulation of meiosis during mammalian spermatogenesis: the A-type cyclins and their associated cyclin-dependent kinases are differentially expressed in the germ-cell lineage</i> , Dev Bio, 207(2):408-18 (Mar 15, 1999). ABSTRACT ONLY
46.	Russell, L.D. et al., <i>Ultrastructural observations of spermatogenesis in mice resulting from transplantatin of mouse spermatogonia</i> , J. Androl., 17(6):603-614 (Nov. 1996).
47.	Schmidt, Jerzy A. et al., <i>Control of Erythroid differentiation. Possible Role of the Transferrin cycle</i> , Cell, Vol. 48, 41-51 (Jul 4, 1986).
48.	Schiedner, Gudrun, <i>Genomic DNA transfer with a high-capacity adenovirus vector results in improved in vivo gene expression and decreased toxicity</i> , Nature Genetics, Vol. 18, pp. 180-183 (Feb 1998).
49.	Sweeney, Claire et al., <i>A distinct cyclin A is expressed in germ cells in the mouse</i> , Development, Vol. 122, pp. 53-64 (1996).
50.	Wagner, Ernst, <i>Transferrin-polycation conjugates as carriers for DNA uptake into cells</i> , Proc. Natl. Acad. Sci. USA, Vol 87, pp. 3430-3414 (May 1990).

EXAMINER

DATE CONSIDERED

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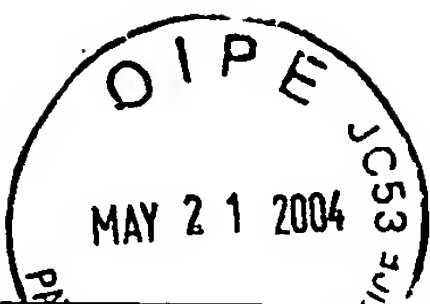
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

51.	Wolffe, A. P., <i>Packaging principle: how DNA methylation and histone acetylation control the transcriptional activity of chromatin</i> , J. Exp Zool, 282(1-2):239-44 (Sep-Oct 1998). ABSTRACT ONLY
52.	Yang, Rong et al., <i>Characterization of a Second Human Cyclin A That is Highly Expressed in Testis and in Several Leukemic Cell Lines</i> , Cancer Research, 57, pp. 913-920 (March 1, 1997).
53.	PCT International Search Report re PCT/US98/24238, International Filing Date: 13/11/1998, Priority Date: 14/11/1997.
54.	XP-002099974, J09220039, "Introducing Extraneous Gene Sperm Ovum Produce Transgenic Animal Comprise Introducing Extraneous Gene Liposome Complex Through Testicular Ovary Artery Sperm Testicular Ovum Ovary", Abstract Only.
55.	Bucci, L. R. et al., <i>Effects of busulfan on murine spermatogenesis: cytotoxicity, sterility, sperm abnormalities, and dominant lethal mutations</i> , Research, Vol. 176, pp. 259-268, (1987).
56.	Kormano, M. et al., <i>In vitro contractility of rat seminiferous tubules following 400 R whole-body X-irradiation</i> , Strahlentherapie Vol. 144, No. 6, pp. 713-718 (1972).
57.	Oakberg, E. F., <i>Effects of radiation on the testis</i> , Handbook of Physiology, Endocrinology V, pp. 233-243 (date unknown)
58.	Pont, Jorg et al., <i>Fertility after chemotherapy for testicular germ cell cancer</i> , Fertility and Sterility, Vol. 68, No. 1, pp. 1-5, (July 1997).
59.	Boujrad, N. et al., <i>Evolution of somatic and germ cell populations after busulfan treatment in utero or neonatal cryptorchidism in the rat</i> , Andrologia, 27(4):223-8 (Jul-Aug 1995). ABSTRACT ONLY

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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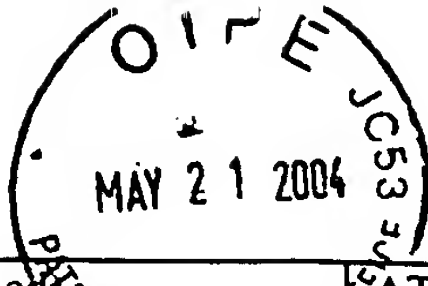
## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

60.	Hasegawa, M., <i>Resistance of differentiating spermatogonia to radiation-induced apoptosis and loss in p53-deficient mice</i> , Radiat Res, 149(3):263-70, (Mar 1998). ABSTRACT ONLY
61.	Hopkinson, C. R., <i>The effect of local testicular irradiation on testicular histology and plasma hormone levels in the male rat</i> , Acta Endocrinol (Copenh), 87(2):413-23 (Feb 1998). ABSTRACT ONLY.
62.	Jiang, F. X., <i>Anat Embryol, Behaviour of spermatogonia following recovery from busulfan treatment in the rat</i> , 198(1):53-61 (Jul 1998). ABSTRACT ONLY.
63.	Kamtchouing, P., <i>Effect of continuous low-dose gamma-irradiation on rat Sertoli cell function</i> , Reprod Nutr Dev, 28(4B):1009-17 (1988). ABSTRACT ONLY.
64.	Kamtchouing, P., <i>Changes in androgen binding protein (ABP) production following continuous low dose gamma irradiation (IR) of adult rat</i> , Steroids, 52(4):349-50, (Oct 1988). ABSTRACT ONLY.
65.	Kangasniemi, M., <i>Cellular regulation of basal and FSH-stimulated cyclic AMP production in irradiated rat testes</i> , 227(1):32-6 (May 1990). ABSTRACT ONLY.
66.	Kasuga, F., <i>The endocrine function of rat gonads with reduced number of germ cells following busulphan treatment</i> , Endocrinol Jpn, 33(1):105-15 (Feb 1986). ABSTRACT ONLY.
67.	Linder, R. E., <i>Endpoints of spermatotoxicity in the rat after short duration exposures to fourteen reproductive toxicants</i> , Reprod Toxicol, 6(6):491-505 (1992). ABSTRACT ONLY.
68.	Pineau, C., <i>Assessment of testicular function after acute and chronic irradiation: further evidence for an influence of late spermatids on Sertoli cell function in the adult rat</i> , Endocrinology, 124(6):2720-8 (Jun 1989). ABSTRACT ONLY.
69.	Pinon-Lataillade, G. et al., <i>Continuous gamma-irradiation of rates: dose-rate effect on loss and recovery of spermatogenesis</i> , Strahlentherapie, 161(7):421-6, (Jul 1985). ABSTRACT ONLY.

EXAMINER

DATE CONSIDERED

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	APPLICANT: Readhead et al.	
	FILING DATE: November 12, 2001	GROUP ART UNIT 9234

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

70.	Pinon-Lataillade, G. et al., <i>Endocrinological and histological changes induced by continuous low dose gamma-irradiation of the rat testis</i> , Acta Endocrinol (Copenh), 109(4):558-62 (Aug 1985). ABSTRACT ONLY.
71.	Pinon-Lataillade, G. et al., <i>Influence of germ cells upon Sertoli cells during continuous low-dose rate gamma-irradiation of adult rats</i> , Mol Cell Endocrinol, 58(1):51-63, (Jul 1988). ABSTRACT ONLY.
72.	Pinon-Lataillade, G., <i>Effect of an acute exposure of rat testes to gamma rays on germ cells and on Sertoli and Leydig cell functions</i> , Reprod Nutr Dev 31(6):617-29. (1991) ABSTRACT ONLY.
73.	Russell, L. D. et al., <i>Ultrastructural observations of spermatogenesis following transplantation of rat testis cells into mouse seminiferous tubules</i> , J. Androl 17(6):615-27. (Nov-Dec 1996). ABSTRACT ONLY.
74.	Announcement re Bulsulfan (Myleran) Facts and Comparisons, pp. 1-5 (Aug 1997).
75.	PCT International Search Report re PCT/US99/10573, International filing Date 13/05/1999, Priority Date: 13/11/1998.
76.	XP-002117132
77.	PCT, International Search Report re PCT/US99/08277, International Filing date 04/15/99; Priority Date 11/13/98
78.	Derwent, XP-002115938
79.	Ikawa, Masahito et al., <i>Green fluorescent protein as a marker in transgenic mice</i> , Develop. Growth Differ., 37, 455-459 (1995), XP-002086829.

EXAMINER

DATE CONSIDERED

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	FILING DATE: November 12, 2001	GROUP ART UNIT 9234

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,162,215	11/10/1992	Bosselman et al.			
	5,686,279	11/11/1997	Finer et al.			
	6,271,436 B1	08/07,2001	Piedrahita et al.			
	6,426,042 B1	07/30/2002	Asada et al.			
	6,215,039 B1	04/10/2001	Brinster, Ralph L.			
	5,858,354	01/12/1999	Brinster			
	4,736,866	04//12/1988	Leder			
	5,741,957	4/21/1998	Deboer et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION Yes	TRANSLATION No
	WO 99/25863 A1	05/27/1999	PCT				
	WO 99/40213 A1	08/12/1999	PCT				
	WO 00/29601 A1	05/25/2000	PCT				
	WO 00/29602 A1	05/25/2000	PCT				
	WO 99/38991	08/05/1999	PCT			X	

## OTHER ART (Including Author, title, Date, Pertinent Pages, Etc.)

80.	XP-000942592, Chang, Kyu-Tae et al., <i>Production of Transgenic Rats and Mice by the Testis-Mediated Gene Transfer</i> , <u>Journal of Repordocution and Development</u> , Vol. 45, No. 1, pp. 29-36 (1999)
81.	Sato, M. et al., <i>Direct Injection of Foreign DNA into Mouse Testis As A Possible Alternative of sperm-Mediated Gene Transfer</i> , <u>Animal Biotechnology</u> , Vol. 5, No. 1, pp. 19-31 (1994)
82.	Eck, Stephen L. et al., <i>Gene-Based therapy</i> , <u>Goodman &amp; Gilman's The Pharmacological Basis of Therapeutics, Ninth Edition, Chapt 5, pp. 77-101 (1996)</u>
83.	Verma, Inder M. et al., <i>Gene therapy—promises, problems and prospects</i> , <u>Nature</u> , Vol. 389, (18 September 1997).
84.	Wall, R. J., <i>Transgenic Livestock: Progress and Prospects For The Future</i> , <u>Theriogenology</u> , Vol. 45, pp. 57-68 (1996)
85.	Culver, <i>Gene Therapy</i> , "Ethical and regulatory considerations in human gene therapy," <u>Handbook for Physicians</u> , Vol. 7, pp. 79-80
86.	Maione, Barbara et al., <i>Sperm-Mediated Gene Transfer in Mice</i> , <u>Molecular Reproduction and Development</u> , Vol. 50, pp406-409 (1998).
87.	Sato, Masahiro et al., <i>Testis-Mediated Gene Transfer (TMGT) in Mice: Successful Transmission of Introduced DNA from FO to F2 Generations</i> , <u>Transgenics</u> , Vol. 3, pp. 11-22 (1999)
88.	Lavitrano, M. Forni et al., <i>Sperm-Mediated Gene Transfer: Production of Pigs Transgenic for a Human Regular of Complement Activation</i> , <u>Transplantation Proceedings</u> , Vol. 29, pp. 3508-3509 (1997).
89.	Bachiller, Daniel et al., <i>Liposome-Mediated DNA Uptake by Sperm Cells</i> , <u>Molecular Reproduction and Development</u> , 30:194-200 (1991).

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	